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JANIE C. PORTER  
GREGORY E. ERICKSON  
R. SCOTT ELMORE

May 7, 1992

**VIA FEDERAL EXPRESS**

The Honorable Donna R. Searcy, Secretary  
Federal Communications Commission  
1919 M Street, N.W., Room 222  
Washington, D.C. 20554

ATTN: FM Branch  
Audio Services Division

Re: Application for New Non-Commercial Educational FM Station  
Pioneer, Tennessee (FM Channel 207A)  
Cumberland Communities Communications Corporation

Dear Ms. Searcy:

Enclosed please find an original and duplicate copies of an application for authority to construct and operate a new non-commercial educational FM station to serve the community of Pioneer, Tennessee on reserved FM Channel 207A (89.3 MHz). Also enclosed is an additional "date-stamped" copy of the application to be returned to the undersigned in the enclosed postage paid, self-addressed envelope after it has been date-stamped by your office.

As indicated above, the application is for a non-commercial educational authorization. Consequently, no filing fee is required for the application's acceptance.

Note that the proposed station will operate on a channel within the range from Channel 201 to 220 whose antenna will lie within the relevant distance to an affected TV Channel 6 station, WATE-TV, Knoxville, Tennessee. In that regard, a map and engineering statement with calculations demonstrating full compliance with § 73.525 of the Commission's rules are included within the engineering section of the application. Also note that an original full-size 7.5 minute series U.S. Geological Survey topographic quadrangle map showing the location of the proposed transmitting antenna is attached to the original copy of the application.

89.3MHZ  
BPED -920508MD NEW  
PIONEER TN  
CUMBERLAND COMMUNITIES COMMUN. CORP

MAY 11 3 00 PM '92

AUDIO SERVICES

94-27 RECEIVED

MAY 8 1992

FCC MAIL BRANCH

FM EXAMINERS

MAY 12 8 03 AM '92

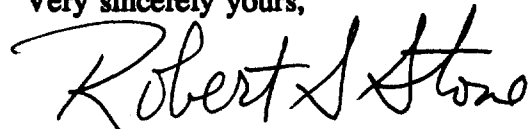
RECEIVED

May 7, 1992

Page 2

Should you or any members of your staff have questions concerning the enclosed, please contact the undersigned for clarification. Thank you for your cooperation in this matter. With kind regards, I remain

Very sincerely yours,

A handwritten signature in black ink, reading "Robert S. Stone". The signature is written in a cursive style with a large, prominent "R" and "S".

Robert S. Stone  
Counsel to Cumberland Communities  
Communications Corporation

RSS/dlb  
Enclosures

cc: Mr. Tony Lawson

APPLICATION FOR CONSTRUCTION PERMIT FOR  
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION  
(Carefully read instructions before filing form) Return only form to FCC

MAY 11 5 05 PM '92

For Commission Use Only

BPED-920508MD

File No.

Section I - GENERAL INFORMATION

1. Name of Applicant Cumberland Communities Communications Corporation (C.C.C.C.)			Send notices and communications to the following person at the address below:		
Street Address or P.O. Box Route 1 Box 808			Name Tony Lawson		
City Duff	State TN	ZIP Code 37729	City Duff	State TN	ZIP Code 37729
Telephone No. (Include Area Code) (615) 566-6428			Telephone No. (Include Area Code) (615) 566-6428		

2. This application is for: ☐ AM ☒ FM ☐ TV

(a) Channel No. or Frequency Channel 207A	(b) Principal Community Pioneer	City Pioneer	State TN
--	------------------------------------	-----------------	-------------

(c) Check one of the following boxes:

☒ Application for NEW station

☐ MAJOR change in licensed facilities; call sign: \_\_\_\_\_

☐ MINOR change in licensed facilities; call sign: \_\_\_\_\_

☐ MAJOR modification of construction permit; call sign: \_\_\_\_\_

File No. of construction permit: \_\_\_\_\_

☐ MINOR modification of construction permit; call sign: \_\_\_\_\_

File No. of construction permit: \_\_\_\_\_

☐ AMENDMENT to pending application; application file number: \_\_\_\_\_

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application? ☐ Yes ☒ No

If Yes, state:	Call letters	Community of License	
		City	State

## Section II - LEGAL QUALIFICATIONS

Name of Applicant

Cumberland Communities Communications Corporation

1. Applicant is: (Check one box below)

☐ (a) governmental or public educational agency, board or institution

☐ (b) private nonprofit educational institution

☒ (c) Other (specify) Nonprofit educational organization incorporated September 19, 1991 at Nashville, Tennessee.

2. For applicants 1(c) only, describe in an Exhibit the nature and educational purposes of the applicant.

Exhibit No.

1

3. For applicants 1(c) applying for a new noncommercial educational television station only, describe in an Exhibit how the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural and civic segments of the principal community to be served.

Exhibit No.

4. Describe in an Exhibit how the proposed station will be used, in accordance with 47 C.F.R. Section 73.503 or Section 73.621, for the advancement of an educational program.

Exhibit No.

2

5. Is there any provision contained in any by-laws, articles of incorporation, partnership agreement, charter, statute or other document which would restrict the applicant in advancing an educational program or complying with any Commission rule, policy or provision of the Communications Act of 1934, as amended?

☐ Yes ☒ No

If Yes, provide particulars in an Exhibit.

Exhibit No.

### CITIZENSHIP AND OTHER STATUTORY REQUIREMENTS

6. (a) Is the applicant in violation of the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments? (See Instruction B to Section II.)

☐ Yes ☒ No

(b) Will any funds, credits or other financial assistance for the construction, purchase or operation of the station(s) be provided by aliens, foreign entities, domestic entities controlled by aliens, or their agents?

☐ Yes ☒ No

If the answer to (b) above is Yes, attach an Exhibit giving full disclosure concerning this assistance.

Exhibit No.

7. (a) Has an adverse finding been made or an adverse final action taken by any court or administrative body as to the applicant or any party to this application in a civil or criminal proceeding brought under the provisions of any law related to the following:

Any felony; broadcast related antitrust or unfair competition; criminal fraud or fraud before another governmental unit; or discrimination?

☐ Yes ☒ No

(b) Is there now pending in any court or administrative body any proceeding involving any of the matters referred to in (a) above?

☐ Yes ☒ No

If the answer to (a) and/or (b) above is Yes, attach an Exhibit giving full disclosure concerning persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), a statement of the facts upon which the proceeding is or was based or the nature of the offense alleged or committed, and a description of the current status or disposition of the matter.

Exhibit No.

## PARTIES TO APPLICATION

8. Complete the following Table with respect to all parties to this application:

(NOTE: If the applicant considers that to furnish complete information would pose an unreasonable burden, it may request that the Commission waive the strict terms of this requirement with appropriate justification.)

INSTRUCTIONS: If applicant is a corporation or an unincorporated association with 50 or fewer stockholders, stock subscribers, holders of membership certificate or other ownership interest, fill out all columns, giving the information requested as to all officers, directors and members of governing board. In addition, give the information as to all persons or entities who are the beneficial or record owners of or have the right to vote capital stock, membership or ownership interests or are subscribers to such interests. If the applicant has more than 50 stockholders, stock subscribers or holders of membership certificates or other ownership interests, furnish the information as to officers, directors, members of governing board, and all persons or entities who are the beneficial or record owners of or have the right to vote 1% or more of the capital stock, membership or ownership interests. If applicant is a governmental or public educational agency, board or institution, fill out columns (a), (b), and (c) as to all members of the governing board and chief executive officers.

Name and Residence Address(es)	Office Held	Director or Member of Governing Board		% of: Ownership (O) or Voting Stock (VS) or Membership (M)
		YES	NO	
		(c)		
(a)	(b)			(d)
Tony Lawson Route 1 Box 808 Duff, TN 37729	President/ Chairman of the Board	Yes		16.67% (M)
Marie Cirillo Route 1 Box 146B Clairfield, TN 37715	Assistant to the President	Yes		16.67% (M)
Marshall Whisnant P.O. Box 2529 Oak Ridge, TN 37831-2529	Vice-President	Yes		16.67% (M)
John Bunnell 2002 Enclave Circle Nashville, TN 37211-7444	Council to the Board	Yes		16.67% (M)
Wayne Bledsoe 7216 Fairlane Rd. Powell, TN 37849	Secretary	Yes		16.67% (M)
Jay Nations 1725 Cumberland Ave. Knoxville, TN. 37916	Treasurer	Yes		16.67% (M)

Section II - LEGAL QUALIFICATIONS (Page 3)

9. Does the applicant or any party to this application have, or have they had, any interest in:

(a) a broadcast station, or pending broadcast station application before the Commission?

☒ Yes ☐ No

(b) a broadcast application which has been dismissed with prejudice by the Commission?

☐ Yes ☒ No

(c) a broadcast application which has been denied by the Commission?

☐ Yes ☒ No

(d) a broadcast station, the license of which has been revoked?

☐ Yes ☒ No

(e) a broadcast application in any pending or concluded Commission proceeding which left unresolved character issues against the applicant?

☐ Yes ☒ No

If the answer to any of the questions in (a)-(e) above is Yes, state in an Exhibit the following information:

Exhibit No.

3

(1) Name of party having interest;

(2) Nature of interest or connection, giving dates;

(3) Call letters of stations or file number of application or docket; and

(4) Location.

### SECTION III - FINANCIAL QUALIFICATIONS

Note: If this application is for a change in an operating facility, DO NOT fill out this Section.

1. Is this application contingent upon receipt of a grant from the National Telecommunications and Information Administration? ☒ Yes ☐ No
2. Is this application contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political subdivision? ☐ Yes ☒ No

NOTE: If either Questions 1 or 2 is answered "Yes," your application cannot be granted until all of the necessary funds are committed or appropriated. In the case of grants from the National Telecommunications and Information Administration, no further action on your part is required. If you rely on funds from a source specified in Question 2, **you must advise the F.C.C. when the funds are committed or appropriated.** This should be accomplished by letter amendment to your application, in triplicate, signed in the same manner as the original application, and clearly identifying the application to be amended.

3. The applicant certifies, except as noted above, that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without additional funds. ☒ Yes ☐ No

### SECTION IV - PROGRAM SERVICE STATEMENT

Attach as an Exhibit, a brief description, in narrative form, of the planned programming service relating to the issues of public concern facing the proposed service area.

Exhibit No.  
4

NOTE: No program service statement need be filed where the proposed station's programming would be **wholly** "instructional" as that type of programming is defined in the Instructions to this Section.

## SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees?

☐ Yes ☒ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 396-A).

## SECTION VII - CERTIFICATION

1. Has or will the applicant comply with the public notice requirements of 47 C.F.R. Section 73.3580?

☒ Yes ☐ No

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. *(See Section 304 of the Communications Act of 1934, as amended.)*


The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.  
U.S. CODE, TITLE 18, SECTION 1001.**

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant Tony Lawson	Title President
Signature 	Date May 5, 1992

### FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, analysts, engineers and applications examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 76 to 80 hours with an average of 78 hours 04 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Office of Managing Director, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0034), Washington, D.C. 20503.

**THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.**



## **EXHIBIT 1**

C.C.C.C. is a not-for-profit organization governed by a Board of Directors. The Board is elected at our annual meeting of members. Members are comprised of our Listener Advisory Board. Anyone with interests in our project can be a member of the Listener Advisory Board. C.C.C.C.'s main purpose is to establish and maintain radio programming for educational and cultural purposes. We will be working with Roane State Community College, Knoxville College, Cumberland College in Williamsburg, Kentucky, area museums and other organizations for sources of programming. Programming will focus on Appalachia, its culture, community problems, education and environment.

## **EXHIBIT 2**

**C.C.C.C. will use teachers and professors from Roane State Community College, Knoxville College, Cumberland College and area schools for sources of lectures and programs. We intend to have historians talking about history of Appalachia, storytellers telling tales that have been passed through generations, national and local news and public service. We also plan to use national and local programming that is instructional and cultural.**

### **EXHIBIT 3**

Cumberland Communities Communications Corporation is an applicant for a new non-commercial educational FM station to serve the community of Clinton, Tennessee on FM Channel 210C3 (89.9 MHz). The application's file number is BPED-920331MC.

Tony Lawson, President, Chairman of the Board, Director, and 16.67% member of the applicant, is enrolled in a 401K retirement plan with Jacor Communications, Inc., owning less than one percent (1%) of the above company. Jacor Communications, Inc. is the licensee of various AM and FM stations, including WMYU(FM), Sevierville, Tennessee.

#### **EXHIBIT 4**

C.C.C.C. will address the problems of Appalachia. We are planning to program shows focusing on existing community issues and problems, such as lack of state funding, poverty, education, employment and environment. A talk show will be programmed for listeners to air their views, complaints and suggestions about topics of concern. C.C.C.C. will be a vehicle for public service in an underserved media area of Northeastern Tennessee and Southeastern Kentucky, working with grass roots organizations throughout the mountains. Problems on environment, gardening and recycling will be broadcast along with shows dealing with health issues and how they are related to the environment.

# Section V-B - FM BROADCAST ENGINEERING DATA

FOR COMMISSION USE ONLY

File No. \_\_\_\_\_

ASB Referral Date \_\_\_\_\_

Referred by \_\_\_\_\_

Name of Applicant

Cumberland Communities Communication Corporation

Call letters (if issued)

New FM

Is this application being filed in response to a window? ☐ Yes ☒ No

If Yes, specify closing date: \_\_\_\_\_

Purpose of Application: (check appropriate boxes)

☒ Construct a new (main) facility

☐ Construct a new auxiliary facility

☐ Modify existing construction permit for main facility

☐ Modify existing construction permit for auxiliary facility

☐ Modify licensed main facility

☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

☐ Antenna supporting-structure height

☐ Effective radiated power

☐ Antenna height above average terrain

☐ Frequency

☐ Antenna location

☐ Class

☐ Main Studio location

☐ Other (Summarize briefly)

File Number(s) \_\_\_\_\_

## 1. Allocation:

Channel No.	Principal community to be served:		
207	City Pioneer	County Campbell	State TN

Class (check only one box below)

☒ A ☐ B1 ☐ B ☐ C3

☐ C2 ☐ C1 ☐ C ☐ D

## 2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.  
Atop Sexton Mountain, approx 7 km north of Pioneer, TN.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	36°	28'	54"	Longitude	84°	19'	33"
----------	-----	-----	-----	-----------	-----	-----	-----

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☐ Yes ☒ No

If Yes, give call letter(s) or file number(s) or both. \_\_\_\_\_

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any. \_\_\_\_\_

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?  
If Yes, list old coordinates.

☐ Yes ☒ No

Latitude	0	'	"	Longitude	0	'	"
----------	---	---	---	-----------	---	---	---

5. Has the FAA been notified of the proposed construction?

☐ Yes ☐ No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No.  
I

Date 3-03-92 Office where filed Southern Region

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

Landing Area	Distance (km)	Bearing (degrees True)
(a) <u>none found</u>		
(b)		

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level;	2400'	<u>731.5</u> meters
(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and	60'	<u>18.3</u> meters
(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)]	2460'	<u>749.8</u> meters

- (b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground	60'	<u>18.3</u> meters (H)
	60'	<u>18.3</u> meters (V)
(2) above mean sea level [(aX1) + (bX1)]	2460'	<u>749.8</u> meters (H)
	2460'	<u>749.8</u> meters (V)
(3) above average terrain		<u>234.4</u> meters (H)
		<u>234.4</u> meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.  
II

9. Effective Radiated Power:

(a) ERP in the horizontal plane 0.3 kw (HM) 0.3 kw (VM)

- (b) Is beam tilt proposed?

☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.  
---

                     kw (HM)                      kw (VM)

\*Polarization

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed?

☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field.

Exhibit No. ---

11. Will the main studio be located within the 70 dBu or 3.16 mV/m contour?

☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No. ---

12. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

☐ Yes ☒ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(d) and 73.318.)*

Exhibit No. ---

13. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction D for Section V. Further, the map must clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No. III

Full size Pioneer, TN quadrangle attached to original application.

14. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No. IV

USGS Corbin 1:250000 scale map.

(a) the proposed transmitter location, and the radials along with profile graphs have been prepared;

(b) the 1 mV/m predicted contour and, for noncommercial educational applicants applying on a commercial channel, the 3.16 mV/m contour; and

(c) the legal boundaries of the principal community to be served.

15. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 1,460 sq. km.

Population 24,122 (1990 census BLOCK data)

16. Attach as an Exhibit a map *(Sectional Aeronautical charts where obtainable)* showing the present and proposed 1 mV/m (60 dbu) contours.

Exhibit No. ---

Enter the following from Exhibit above:

Gain Area \_\_\_\_\_ sq. mi.

Loss Area \_\_\_\_\_ sq. mi.

Percent change (gain area plus loss area as percentage of present area) \_\_\_\_\_ %.

If 50% or more this constitutes a major change. Indicate in question 2(c), Section I, accordingly.

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 4)

17. For an application involving an auxiliary facility only, attach as an Exhibit a map (*Sectional Aeronautical Chart or equivalent*) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
---

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675. (File No.: \_\_\_\_\_)

18. Terrain and coverage data (*to be calculated in accordance with 47 C.F.R. Section 73.373*).

Source of terrain data: (*check only one box below*)

☒ Linearly interpolated 30-second database

☐ 7.5 minute topographic map

(Source: NGDC (see Exhibit V))

☐ Other (*briefly summarize*)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)
0		
45		
90		
135	SEE EXHIBIT V	
180		
225		
270		
315		

**Allocation Studies**

(*See Subpart C of 47 C.F.R. Part 73*)

19. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico?

☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

Exhibit No.  
---



SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 5)

20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada?

☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947.

Exhibit No.

---

21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following:

Exhibit No.

VI

- (a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
- (b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
- (c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
- (d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
- (e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
- (f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
- (g) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (h) The name of the map(s) used in the Exhibit(s).

22. With regard to any stations separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as an Exhibit information required in 1/ *(separation requirements involving intermediate frequency (i.f.) interference)*.

Exhibit No.

VII

- 23.(a) Is the proposed operation on Channel 218, 219, or 220?

☐ Yes ☒ No

- (b) If the answer to (a) is yes, does the proposed operation satisfy the requirements of 47 C.F.R. Section 73.207?

☐ Yes ☐ No

- (c) If the answer to (b) is yes, attach as an Exhibit information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222 and 223.

Exhibit No.

---

- (d) If the answer to (b) is no, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.

---

1/ A showing that the proposed operation meets the minimum distance separation requirements. Include existing stations, proposed stations, and cities which appear in the Table of Allotments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 6)

- (e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.  
---

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibits(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?

☒ Yes ☐ No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

Exhibit No.  
VIII

25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?

☐ Yes ☒ No

If Yes, attach as an Exhibit information required in 1/. (Except for Class B (secondary) proposals.)

Exhibit No.  
---

26. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

☐ Yes ☒ No


If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No.  
IX

If No, explain briefly why not. -see Exhibit IX

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.


Name (Typed or Printed) Dwight R. Magnuson	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer
Signature 	Address (Include ZIP Code) P.O. Box 2761 30 Market Square Mall Knoxville, TN 37901
Date May 4, 1992	Telephone No. (Include Area Code) (615) 525-6358

## EXHIBIT I

\* U. S. GOVERNMENT PRINTING OFFICE: 1985-494-355

DO NOT REMOVE CARBONS

Form Approved OMB No. 2120-0001

 US Department of Transportation Federal Aviation Administration		<b>NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION</b>		Aeronautical Study Number	
<b>1. Nature of Proposal</b> A. Type <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration B. Class <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (Duration _____ months) C. Work Schedule Dates Beginning <u>upon FCC grant</u> End _____			<b>2. Complete Description of Structure</b> A. Include effective radiated power and assigned frequency of all existing, proposed or modified AM, FM, or TV broadcast stations utilizing this structure. B. Include size and configuration of power transmission lines and their supporting towers in the vicinity of FAA facilities and public airports. C. Include information showing site orientation, dimensions, and construction materials of the proposed structure.  Guyed steel tower to support single antenna bay (FM); operating on 89.3 MHz with 0.4 kw ERP. Antenna C-L @ 2500' AMSL.		
<b>3A. Name and address of individual, company, corporation, etc. proposing the construction or alteration.</b> (Number, Street, City, State and Zip Code) (615) <u>566-6428</u> area code Telephone Number Cumberland Communities Communication Corp. c/o Tony Lawson Route 1, Box 808 Duff, TN 37729			(if more space is required, continue on a separate sheet.)		
<b>B. Name, address and telephone number of proponent's representative if different than 3 above.</b> Dwight R. Magnuson, P.E. P.O. Box 2761 30 Market Square Mall Knoxville, TN 37901 615/525-6358					
<b>4. Location of Structure</b> A. Coordinates (To nearest second) 36° 28' 54" Latitude 84° 19' 33" Longitude B. Nearest City or Town, and State Pioneer, TN C. Name of nearest airport, heliport, flightpark, or seaplane base Campbell CO			<b>5. Height and Elevation (Complete to the nearest foot)</b> A. Elevation of site above mean sea level 2400 B. Height of Structure including all appurtenances and lighting (if any) above ground, or water if so situated 100 C. Overall height above mean sea level (A + B) 2500		
<b>D. Description of location of site with respect to highways, streets, airports, prominent terrain features, existing structures, etc. Attach a U.S. Geological Survey quadrangle map or equivalent showing the relationship of construction site to nearest airport(s).</b> (if more space is required, continue on a separate sheet of paper and attach to this notice.) Atop Sexton Mountain, approx 4½ miles north of Pioneer, TN See attached map.					
Notice is required by Part 77 of the Federal Aviation Regulations (14 C.F.R. Part 77) pursuant to Section 1101 of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1101). Persons who knowingly and willingly violate the Notice requirements of Part 77 are subject to a fine (criminal penalty) of not more than \$500 for the first offense and not more than \$2,000 for subsequent offenses, pursuant to Section 902(a) of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1472(a)).					
<b>I HEREBY CERTIFY</b> that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to obstruction mark and/or light the structure in accordance with established marking & lighting standards if necessary.					
Date March 3, 1992		Typed Name/Title of Person Filing Notice Dwight Magnuson		Signature	
<b>FOR FAA USE ONLY</b>					
<b>The Proposal:</b> <input type="checkbox"/> Does not require a notice to FAA. <input type="checkbox"/> Is not identified as an obstruction under any standard of FAR, Part 77, Subpart C, and would not be a hazard to air navigation. <input type="checkbox"/> Is identified as an obstruction under the standards of FAR, Part 77, Subpart C, but would not be a hazard to air navigation. <input type="checkbox"/> Should be obstruction <input type="checkbox"/> marked <input type="checkbox"/> lighted per FAA Advisory Circular 70/7480-1, Chapter(s) _____ <input type="checkbox"/> Obstruction marking and lighting are not necessary.			Supplemental Notice of Construction: FAA Form 7480-2 is required by _____ <input type="checkbox"/> At least 48 hours before the start of construction. <input type="checkbox"/> Within five days after the construction reaches its greatest height. This determination expires on: _____ (a) extended, revised or terminated by the issuing office. (b) the construction is subject to the licensing authority of the Federal Communications Commission and an application for a construction permit is made to the FCC. If the FCC denies the application, the determination expires on the date prescribed by the FCC. <b>NOTE:</b> Request for extension of the period of the determination must be made to the issuing office at least 15 days prior to the expiration date. If the structure is subject to the licensing authority of the FCC, it is the responsibility of the Agency		
<b>Remarks:</b>					



U.S. Department  
of Transportation

Southern Region

P. O. Box 20636  
Atlanta, Georgia 30320

Federal Aviation

**ACKNOWLEDGEMENT OF NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION**

CITY	STATE	LATITUDE/LONGITUDE	MSL	AGL	AMSL
PIONEER	TN	36-28-54.00 084-19-33.00	2400	100	2500

CUMBERLAND COMMUNITIES COMM. CORP.  
C/O TONY LAWSON  
ROUTE 1, BOX 808  
DUFF, TN 37729

AERONAUTICAL STUDY  
No: 92-ASO-0433-OE

Type Structure: ANTENNA TOWER 89.3 MHZ, 0.4 KW ERP

The Federal Aviation Administration hereby acknowledges receipt of notice dated 03/03/92 concerning the proposed construction or alteration contained herein.

A study has been conducted under the provisions of Part 77 of the Federal Aviation Regulations to determine whether the proposed construction would be an obstruction to air navigation, whether it should be marked and lighted to enhance safety in air navigation, and whether supplemental notice of start and completion of construction is required to permit timely charting and notification to airmen. The findings of that study are as follows:

The proposed construction would not exceed FAA obstruction standards and would not be a hazard to air navigation.

Obstruction marking and lighting are not necessary.

This determination expires on 09/19/92 unless application is made, (if subject to the licensing authority of the Federal Communications Commission), to the FCC before that date, or it is otherwise extended, revised or terminated.

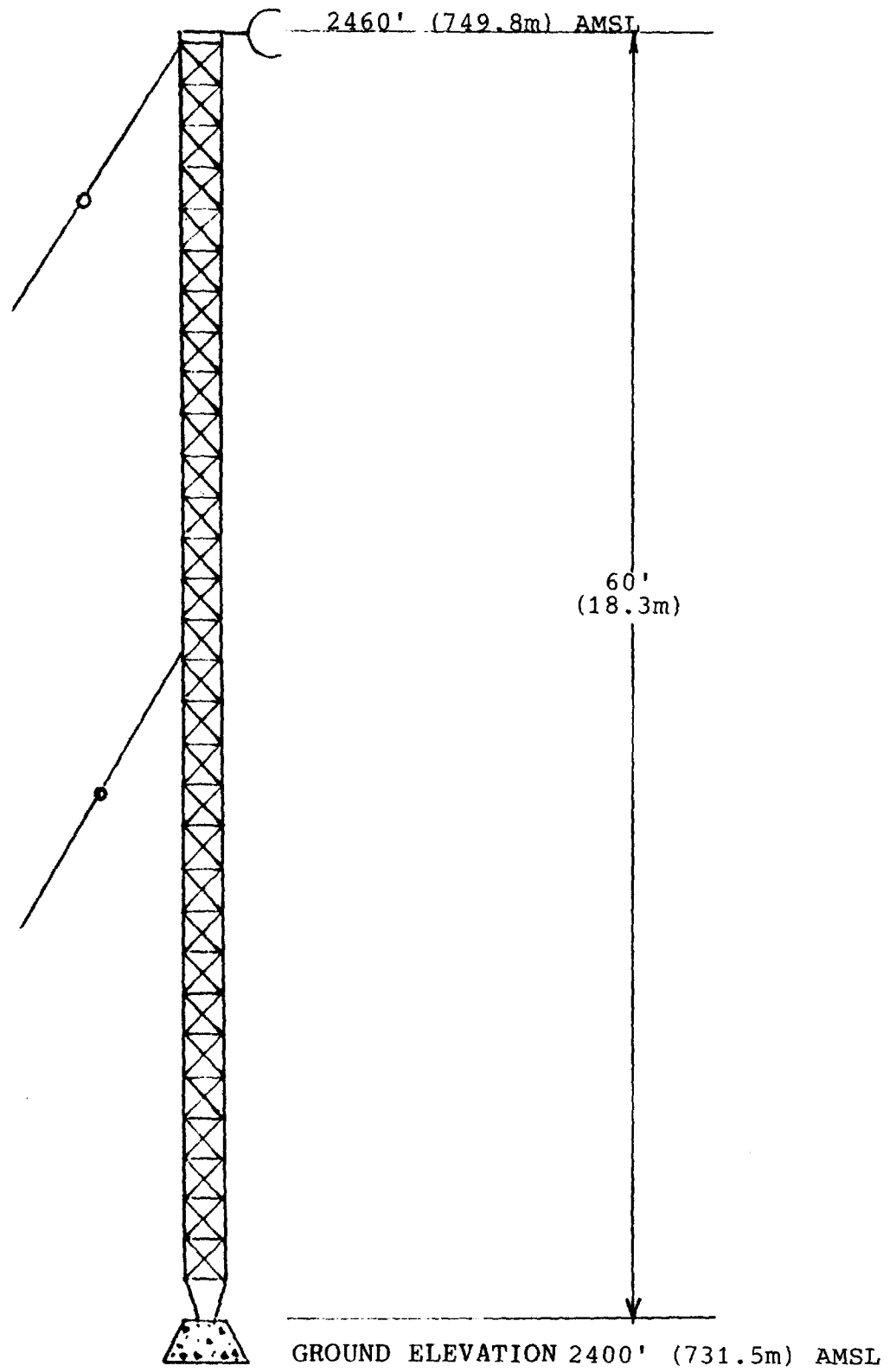
If the structure is subject to the licensing authority of the FCC, a copy of this acknowledgement will be sent to that Agency.

NOTICE IS REQUIRED ANYTIME THE PROJECT IS ABANDONED OR THE PROPOSAL IS MODIFIED

SIGNED Robert L. Shipp Jr. Specialist, Systems Management Branch  
Robert L. Shipp Jr. (404) 763-7646.  
ISSUED IN: East Point, Georgia ON 03/20/92

EXHIBIT II

VERTICAL PLAN



UNITED STATES  
TENNESSEE VALLEY AUTHORITY  
MAPPING SERVICES BRANCH

4157 III SE  
(KETCHEN)

36°30'00"

17°30'

20' 739

740

741

743

84°20'00"

84°17'30"

PROPOSED SITE

36°27'30"

SCALE 1:24000

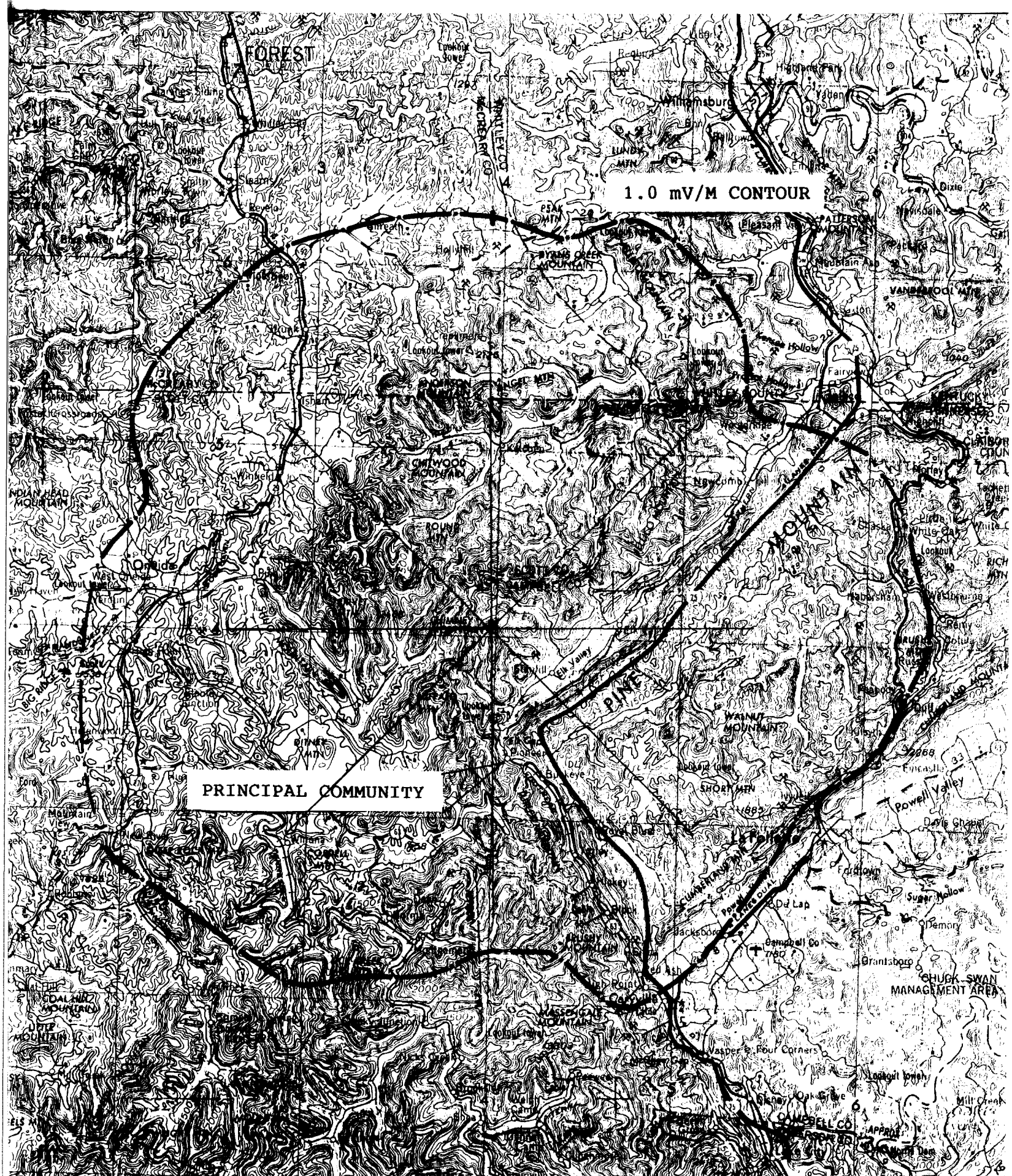
EXHIBIT III



1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER





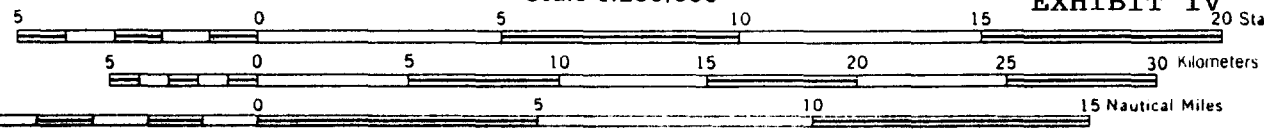
PRINCIPAL COMMUNITY

1.0 mV/M CONTOUR

Scale 1:250,000

EXHIBIT IV

20 Statute Miles



# EXHIBIT V

## DISTANCES TO CONTOURS (Kilometers):

Frequency: 89.3000 MHz

F(50,50) Curves Number of Contours: 1

AZ (degs)	HAAT (m)	ERP (dBk)	CONTOUR LEVELS (dBu): 60.0
.0	259	-5.23	22.0 * (Radial used in HAAT calculation)
15.0	259	-5.23	22.1
30.0	266	-5.23	22.3
45.0	182	-5.23	18.6 *
60.0	230	-5.23	20.8
75.0	266	-5.23	22.4
90.0	298	-5.23	23.6 *
105.0	253	-5.23	21.8
120.0	197	-5.23	19.3
135.0	216	-5.23	20.2 *
150.0	238	-5.23	21.2
165.0	167	-5.23	17.7
180.0	159	-5.23	17.3 *
195.0	187	-5.23	18.8
210.0	255	-5.23	21.9
225.0	229	-5.23	20.8 *
240.0	304	-5.23	23.8
255.0	288	-5.23	23.2
270.0	259	-5.23	22.1 *
285.0	216	-5.23	20.2
300.0	261	-5.23	22.2
315.0	274	-5.23	22.7 *
330.0	287	-5.23	23.2
345.0	273	-5.23	22.6



### 30. Second Terrain Database

Starting point coordinates: 36 28 54 84 19 33

Maximum distance: 16.0 km

Distance increment: .100 km

Azimuth	Endpoint Coordinates		3 - 16 km Average Elevation	Total Path Delta H
-----	-----		-----	-----
.0	36.6256	84.3258	491.3 meters	289.0 meters
45.0	36.5834	84.1991	567.7	163.0
90.0	36.4815	84.1468	452.0	209.0
135.0	36.3798	84.1994	533.8	224.0
180.0	36.3377	84.3258	590.7	250.0
225.0	36.3798	84.4522	521.2	247.0
270.0	36.4815	84.5048	490.9	169.0
315.0	36.5834	84.4526	475.6	239.0

Average of 8 standard radials: 515.4 meters